

Abstract of the Disclosure

A method models a graphics object by providing a model of the graphics object and generating a first adaptively sampled distance field for the model. Next, a topological hint is constructed. A second adaptively sampled distance field is generated from the topological hint. First locations of the second adaptively sampled distance field are sampled to determine a corresponding topological feature for each location. Second locations in the first adaptively sampled distance are determined from the corresponding topological features. The first adaptively sampled distance field is then sampled at the second locations to determine a distance value for each of the second locations to model the graphics object according to the topological hint.